OIPE
FEB 27 2004
PATENT & TRADEMARK OFFICE

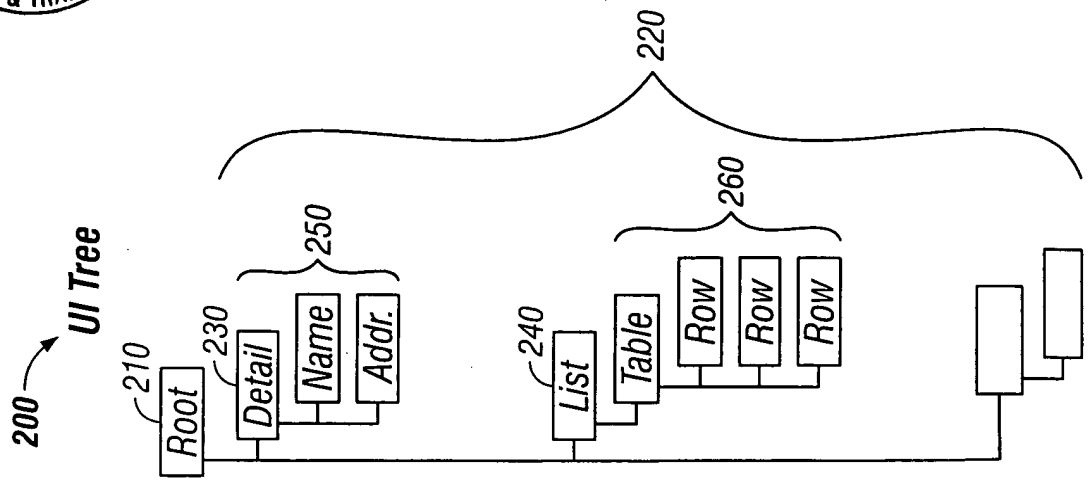

FIG. 2

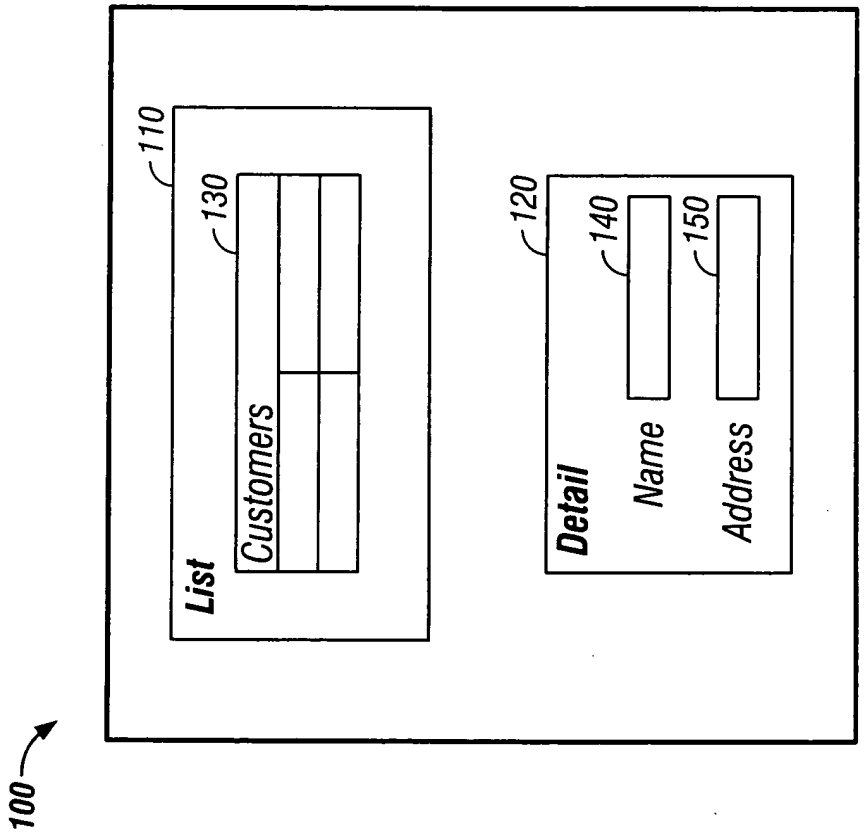

FIG. 1

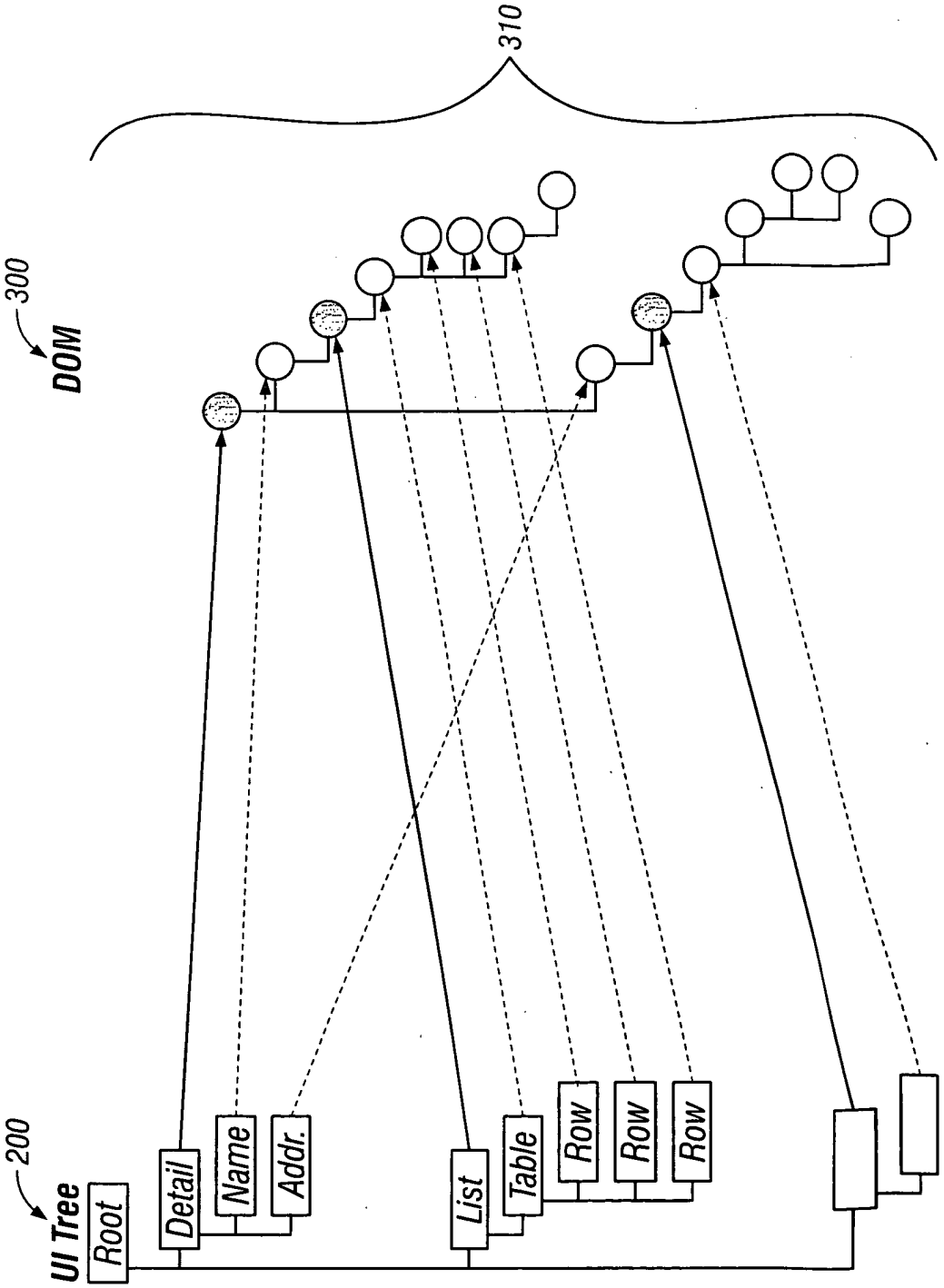
310
300
DOM
200
UI Tree
Root
Detail
Name
Addr.
List
Table
Row
Row
Row

FIG. 3

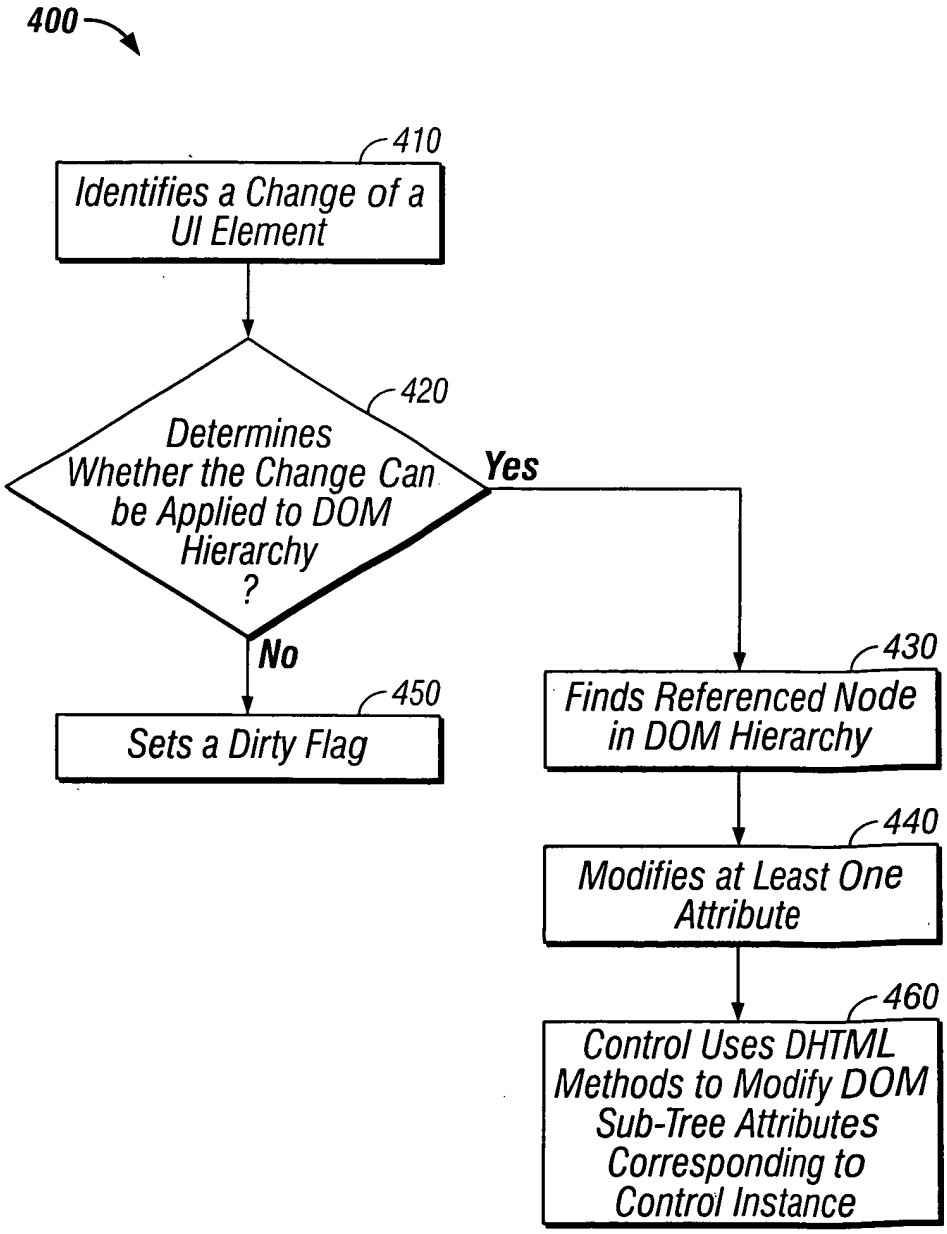
400
410
Identifies a Change of a UI Element
420
Determines Whether the Change Can be Applied to DOM Hierarchy ?
Yes
No
430
Finds Referenced Node in DOM Hierarchy
440
Modifies at Least One Attribute
450
Sets a Dirty Flag
460
Control Uses DHTML Methods to Modify DOM Sub-Tree Attributes Corresponding to Control Instance

FIG. 4

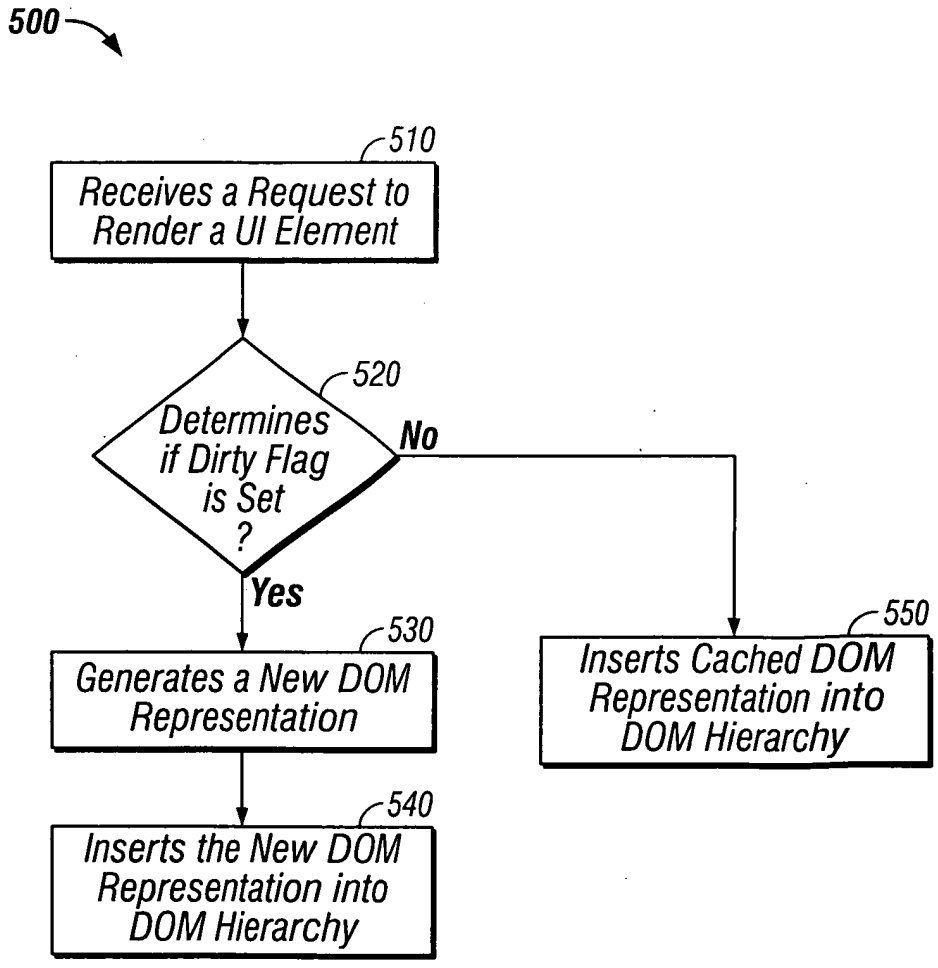
500
510
Receives a Request to Render a UI Element
520
Determines if Dirty Flag is Set ?
No
Yes
530
Generates a New DOM Representation
540
Inserts the New DOM Representation into DOM Hierarchy
550
Inserts Cached DOM Representation into DOM Hierarchy

FIG. 5